

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number  
**WO 2004/053917 A1**

(51) International Patent Classification<sup>7</sup>: **H01J 17/49**

(21) International Application Number:  
PCT/KR2003/002695

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:  
10-2002-0078268  
10 December 2002 (10.12.2002) KR  
10-2002-0078713  
11 December 2002 (11.12.2002) KR

(71) Applicant (for all designated States except US): **ORION ELECTRIC CO., LTD.** [KR/KR]; 257 Gongdan-dong, Gumi-si, 730-030 Gyoungsangbuk-do (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MOON, Seok Joon** [KR/KR]; 257 Gongdan-dong, Gumi-si, 730-904

Gyoungsangbuk-do (KR). **KIM, Min Soo** [KR/KR]; #104-813 Donghwa Zootaek, 593 Namyul-ri, Seok-jeok-myeon, Chilgok-gun, 718-831 Gyoungsangbuk-do (KR).

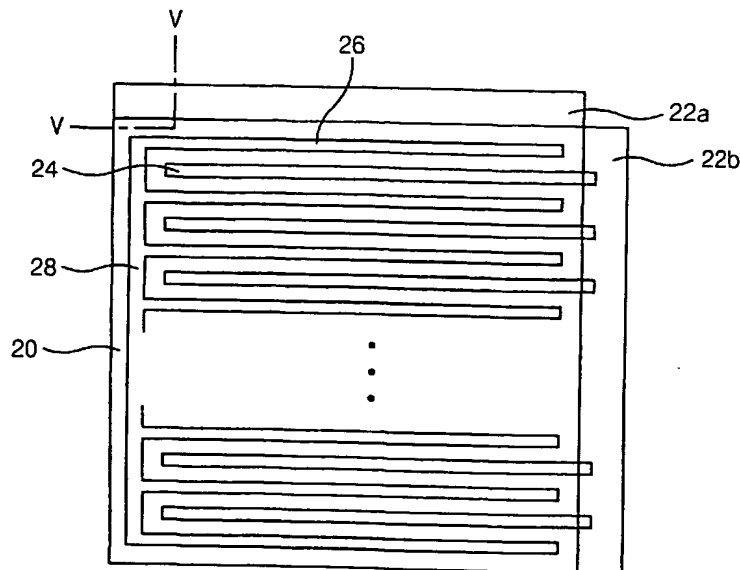
(74) Agent: **HWANG, Eui In**; 10th Floor, Hankook Tire Bldg., 647-15 Yoksam-dong, Gangnam-gu, Seoul 135-723 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **PLASMA DISPLAY PANEL FOR MULTI-SCREEN**



(57) Abstract: The present invention relates to a multi-screen plasma display panel having improved structures of a sustain electrode and a scan electrode used in configuration of a multi-screen, thereby improving an operation characteristic and a brightness. In a unit plasma display panel, a front panel whereon a sustain electrode and a scan electrode are formed are sealed with a rear panel whereon an address electrode is formed. A multi-screen is formed by combining a plurality of the unit plasma display panels. End portions of the sustain electrodes to receive scan signals form a common electrode connected to the scan electrode, and the sustain electrode is configured to receive a sustain signal from the common electrode.



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*